

CALCULATIONS OF SAMPLE SIZES FROM
THE FEDERAL TRADE COMMISSION DATA (November 22, 1967)

Calculated* Standard Deviation (mg/port)	FTC* 11/22/67 Frequency of S.D.	TITL Frequency of S.D.	Sample** Size (Cigts)
0.5	0	1	20
0.6	0	0	29
0.7	2	1	40
0.8	0	2	52
0.9	11	4	65
1.0	0	13	80
1.1	11	7	97
1.2	0	5	116
1.3	11	11	136
1.4	0	6	157
1.5	0	4	180
1.6	8	3	205
1.7	0	1	232
1.8	5	0	260
1.9	0	0	289
2.0	5	0	320
2.1	0	1	353
2.2	1		388
2.3	0		424
2.4	0		461
2.5	1		500
2.6	0		541
2.7	0		584
2.8	0		628
2.9	2		673
3.0	0		720
3.1	1		769
5.6	1		2,509

*The FTC frequency table reflects the effect of calculating standard deviations from previously rounded off tolerances. i.e., zero frequencies at standard deviations of 0.8, 1.0, 1.2, etc. The tolerances reported by the FTC are two standard deviations. The standard deviations (mg/port) for the frequency table were calculated in the following manner.

$$\frac{\text{SD (mg/port)}}{\sqrt{20 \text{ ports}}} = \frac{\text{Tolerance Reported}}{2}$$

or $\text{SD (mg/port)} = (\sqrt{5}) \text{ times (Tolerance Reported)}$

**Number of cigarettes necessary to tolerate a maximum error of 0.5 milligrams at the 95% level of confidence.